

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10|570,661
Source: JFAS
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/570,661

DATE: 02/01/2007
TIME: 12:05:35

Input Set : A:\PTO.SS.txt
Output Set: N:\CRF4\02012007\J570661.raw

3 <110> APPLICANT: GUILHOT, Christophe
 4 DAFFE, Mamadou
 5 HOUSSIN, Christine
 6 PORTEVIN, Damien
 7 DE SOUSA, Celia
 9 <120> TITLE OF INVENTION: USE OF PKS 13 PROTEIN CODING FOR CONDENSASE OF MYCOLIC ACIDS
 OF
 10 MYCOBACTERIA AND RELATED STRAINS AS AN ANTIBIOTICS TARGET
 12 <130> FILE REFERENCE: 287229US0XPCT
 14 <140> CURRENT APPLICATION NUMBER: 10/570,661
 C--> 15 <141> CURRENT FILING DATE: 2006-03-06
 17 <150> PRIOR APPLICATION NUMBER: PCT/FR04/02257
 18 <151> PRIOR FILING DATE: 2004-09-06
 20 <150> PRIOR APPLICATION NUMBER: FR 0310470
 21 <151> PRIOR FILING DATE: 2003-09-04
 23 <160> NUMBER OF SEQ ID NOS: 31
 25 <170> SOFTWARE: PatentIn version 3.1
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 1733
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Mycobacterium tuberculosis
 32 <400> SEQUENCE: 1
 33 Met Ala Asp Val Ala Glu Ser Gln Glu Asn Ala Pro Ala Glu Arg Ala
 34 1 5 10 15
 36 Glu Leu Thr Val Pro Glu Met Arg Gln Trp Leu Arg Asn Trp Val Gly
 37 20 25 30
 39 Lys Ala Val Gly Lys Ala Pro Asp Ser Ile Asp Glu Ser Val Pro Met
 40 35 40 45
 42 Val Glu Leu Gly Leu Ser Ser Arg Asp Ala Val Ala Met Ala Ala Asp
 43 50 55 60
 45 Ile Glu Asp Leu Thr Gly Val Thr Leu Ser Val Ala Val Ala Phe Ala
 46 65 70 75 80
 48 His Pro Thr Ile Glu Ser Leu Ala Thr Arg Ile Ile Glu Gly Glu Pro
 49 85 90 95
 51 Glu Thr Asp Leu Ala Gly Asp Asp Ala Glu Asp Trp Ser Arg Thr Gly
 52 100 105 110
 54 Pro Ala Glu Arg Val Asp Ile Ala Ile Val Gly Leu Ser Thr Arg Phe
 55 115 120 125
 57 Pro Gly Glu Met Asn Thr Pro Glu Gln Thr Trp Gln Ala Leu Leu Glu
 58 130 135 140
 60 Gly Arg Asp Gly Ile Thr Asp Leu Pro Asp Gly Arg Trp Ser Glu Phe
 61 145 150 155 160
 63 Leu Glu Glu Pro Arg Leu Ala Ala Arg Val Ala Gly Ala Arg Thr Arg
 64 165 170 175

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66 Gly Gly Tyr Leu Lys Asp Ile Lys Gly Phe Asp Ser Glu Phe Phe Ala
 67 180 185 190
 69 Val Ala Lys Thr Glu Ala Asp Asn Ile Asp Pro Gln Gln Arg Met Ala
 70 195 200 205
 72 Leu Glu Leu Thr Trp Glu Ala Leu Glu His Ala Arg Ile Pro Ala Ser
 73 210 215 220
 75 Ser Leu Arg Gly Gln Ala Val Gly Val Tyr Ile Gly Ser Ser Thr Asn
 76 225 230 235 240
 78 Asp Tyr Ser Phe Leu Ala Val Ser Asp Pro Thr Val Ala His Pro Tyr
 79 245 250 255
 81 Ala Ile Thr Gly Thr Ser Ser Ser Ile Ile Ala Asn Arg Val Ser Tyr
 82 260 265 270
 84 Phe Tyr Asp Phe His Gly Pro Ser Val Thr Ile Asp Thr Ala Cys Ser
 85 275 280 285
 87 Ser Ser Leu Val Ala Ile His Gln Gly Val Gln Ala Leu Arg Asn Gly
 88 290 295 300
 90 Glu Ala Asp Val Val Val Ala Gly Gly Val Asn Ala Leu Ile Thr Pro
 91 305 310 315 320
 93 Met Val Thr Leu Gly Phe Asp Glu Ile Gly Ala Val Leu Ala Pro Asp
 94 325 330 335
 96 Gly Arg Ile Lys Ser Phe Ser Ala Asp Ala Asp Gly Tyr Thr Arg Ser
 97 340 345 350
 99 Glu Gly Gly Gly Met Leu Val Leu Lys Arg Val Asp Asp Ala Arg Arg
 100 355 360 365
 102 Asp Gly Asp Ala Ile Leu Ala Val Ile Ala Gly Ser Ala Val Asn His
 103 370 375 380
 105 Asp Gly Arg Ser Asn Gly Leu Ile Ala Pro Asn Gln Asp Ala Gln Ala
 106 385 390 395 400
 108 Asp Val Leu Arg Arg Ala Tyr Lys Asp Ala Gly Ile Asp Pro Arg Thr
 109 405 410 415
 111 Val Asp Tyr Ile Glu Ala His Gly Thr Gly Thr Ile Leu Gly Asp Pro
 112 420 425 430
 114 Ile Glu Ala Glu Ala Leu Gly Arg Val Val Gly Arg Gly Arg Pro Ala
 115 435 440 445
 117 Asp Arg Pro Ala Leu Leu Gly Ala Val Lys Thr Asn Val Gly His Leu
 118 450 455 460
 120 Glu Ser Ala Ala Gly Ala Ala Ser Met Ala Lys Val Val Leu Ala Leu
 121 465 470 475 480
 123 Gln His Asp Lys Leu Pro Pro Ser Ile Asn Phe Ala Gly Pro Ser Pro
 124 485 490 495
 125 Tyr Ile Asp Phe Asp Ala Met Arg Leu Lys Met Ile Thr Thr Pro Thr
 126 500 505 510
 128 Asp Trp Pro Arg Tyr Gly Gly Tyr Ala Leu Ala Gly Val Ser Ser Phe
 129 515 520 525
 131 Gly Phe Gly Gly Ala Asn Ala His Val Val Val Arg Glu Val Leu Pro
 132 530 535 540
 134 Arg Asp Val Val Glu Lys Glu Pro Glu Pro Glu Pro Glu Pro Lys Ala
 135 545 550 555 560
 137 Ala Ala Glu Pro Ala Glu Ala Pro Thr Leu Ala Gly His Ala Leu Arg

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138	565	570	575
140	Phe Asp Glu Phe Gly Asn Ile Ile Thr Asp Ser Ala Val Ala Glu Glu		
141	580	585	590
143	Pro Glu Pro Glu Leu Pro Gly Val Thr Glu Glu Ala Leu Arg Leu Lys		
144	595	600	605
146	Glu Ala Ala Leu Glu Glu Leu Ala Ala Gln Glu Val Thr Ala Pro Leu		
147	610	615	620
149	Val Pro Leu Ala Val Ser Ala Phe Leu Thr Ser Arg Lys Lys Ala Ala		
150	625	630	635
152	Ala Ala Glu Leu Ala Asp Trp Met Gln Ser Pro Glu Gly Gln Ala Ser		
153	645	650	655
155	Ser Leu Glu Ser Ile Gly Arg Ser Leu Ser Arg Arg Asn His Gly Arg		
156	660	665	670
158	Ser Arg Ala Val Val Leu Ala His Asp His Asp Glu Ala Ile Lys Gly		
159	675	680	685
161	Leu Arg Ala Val Ala Ala Gly Lys Gln Ala Pro Asn Val Phe Ser Val		
162	690	695	700
164	Asp Gly Pro Val Thr Thr Gly Pro Val Trp Val Leu Ala Gly Phe Gly		
165	705	710	715
167	Ala Gln His Arg Lys Met Gly Lys Ser Leu Tyr Leu Arg Asn Glu Val		
168	725	730	735
170	Phe Ala Ala Trp Ile Glu Lys Val Asp Ala Leu Val Gln Asp Glu Leu		
171	740	745	750
173	Gly Tyr Ser Val Leu Glu Leu Ile Leu Asp Asp Ala Gln Asp Tyr Gly		
174	755	760	765
176	Ile Glu Thr Thr Gln Val Thr Ile Phe Ala Ile Gln Ile Ala Leu Gly		
177	770	775	780
179	Glu Leu Leu Arg His His Gly Ala Lys Pro Ala Ala Val Ile Gly Gln		
180	785	790	795
181	800	805	810
182	Ser Leu Gly Glu Ala Ala Ser Ala Tyr Phe Ala Gly Gly Leu Ser Leu		
184	820	825	830
185	Arg Asp Ala Thr Arg Ala Ile Cys Ser Arg Ser His Leu Met Gly Glu		
187	835	840	845
188	Gly Glu Ala Met Leu Phe Gly Glu Tyr Ile Arg Leu Met Ala Leu Val		
190	850	855	860
193	Glu Tyr Ser Ala Asp Glu Ile Arg Glu Val Phe Ser Asp Phe Pro Asp		
194	865	870	875
196	Leu Glu Val Cys Val Tyr Ala Ala Pro Thr Gln Thr Val Ile Gly Gly		
197	885	890	895
199	Met Asp Pro Leu Leu Gly Glu Leu Thr Ala Glu Leu Gln Gly Ile Lys		
200	900	905	910
202	Pro Thr Ser Pro Thr Cys Gly Ile Phe Ser Thr Val His Glu Gly Arg		
203	915	920	925
205	Tyr Ile Lys Pro Gly Gly Glu Pro Ile His Asp Val Glu Tyr Trp Lys		
206	930	935	940
208	945	950	955
209	955	960	

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211 Lys Gly Leu Arg His Ser Val Tyr Phe Thr His Gly Ile Arg Asn Ala
212 965 970 975
214 Val Asp Ser Gly His Thr Thr Phe Leu Glu Leu Ala Pro Asn Pro Val
215 980 985 990
217 Ala Leu Met Gln Val Ala Leu Thr Thr Ala Asp Ala Gly Leu His Asp
218 995 1000 1005
220 Ala Gln Leu Ile Pro Thr Leu Ala Arg Lys Gln Asp Glu Val Ser Ser
221 1010 1015 1020
223 Met Val Ser Thr Met Ala Gln Leu Tyr Val Tyr Gly His Asp Leu Asp
224 1025 1030 1035 1040
226 Ile Arg Thr Leu Phe Ser Arg Ala Ser Gly Pro Gln Asp Tyr Ala Asn
227 1045 1050 1055
229 Ile Pro Pro Thr Arg Phe Lys Arg Lys Glu His Trp Leu Pro Ala His
230 1060 1065 1070
232 Phe Ser Gly Asp Gly Ser Thr Tyr Met Pro Gly Thr His Val Ala Leu
233 1075 1080 1085
235 Pro Asp Gly Arg His Val Trp Glu Tyr Ala Pro Arg Asp Gly Asn Val
236 1090 1095 1100
238 Asp Leu Ala Ala Leu Val Arg Ala Ala Ala His Val Leu Pro Asp
239 1105 1110 1115 1120
241 Ala Gln Leu Thr Ala Ala Glu Gln Arg Ala Val Pro Gly Asp Gly Ala
242 1125 1130 1135
244 Arg Leu Val Thr Thr Met Thr Arg His Pro Gly Gly Ala Ser Val Gln
245 1140 1145 1150
247 Val His Ala Arg Ile Asp Glu Ser Phe Thr Leu Val Tyr Asp Ala Leu
248 1155 1160 1165
250 Val Ser Arg Ala Gly Ser Glu Ser Val Leu Pro Thr Ala Val Gly Ala
251 1170 1175 1180
253 Ala Thr Ala Ile Ala Val Ala Asp Gly Ala Pro Val Ala Pro Glu Thr
254 1185 1190 1195 1200
256 Pro Ala Glu Asp Ala Asp Ala Glu Thr Leu Ser Asp Ser Leu Thr Thr
257 1205 1210 1215
259 Arg Tyr Met Pro Ser Gly Met Thr Arg Trp Ser Pro Asp Ser Gly Glu
260 1220 1225 1230
262 Thr Ile Ala Glu Arg Leu Gly Leu Ile Val Gly Ser Ala Met Gly Tyr
263 1235 1240 1245
265 Glu Pro Glu Asp Leu Pro Trp Glu Val Pro Leu Ile Glu Leu Gly Leu
266 1250 1255 1260
268 Asp Ser Leu Met Ala Val Arg Ile Lys Asn Arg Val Glu Tyr Asp Phe
269 1265 1270 1275 1280
271 Asp Leu Pro Pro Ile Gln Leu Thr Ala Val Arg Asp Ala Asn Leu Tyr
272 1285 1290 1295
274 Asn Val Glu Lys Leu Ile Glu Tyr Ala Val Glu His Arg Asp Glu Val
275 1300 1305 1310
277 Gln Gln Leu His Glu His Gln Lys Thr Gln Thr Ala Glu Glu Ile Ala
278 1315 1320 1325
280 Arg Ala Gln Ala Glu Leu Leu His Gly Lys Val Gly Lys Thr Glu Pro
281 1330 1335 1340
283 Val Asp Ser Glu Ala Gly Val Ala Leu Pro Ser Pro Gln Asn Gly Glu

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284	1345	1350	1355	1360
286	Gln Pro Asn Pro Thr Gly Pro Ala Leu Asn Val Asp Val Pro Pro Arg			
287	1365	1370	1375	
289	Asp Ala Ala Glu Arg Val Thr Phe Ala Thr Trp Ala Ile Val Thr Gly			
290	1380	1385	1390	
293	Lys Ser Pro Gly Gly Ile Phe Asn Glu Leu Pro Arg Leu Asp Asp Glu			
294	1395	1400	1405	
296	Ala Ala Ala Lys Ile Ala Gln Arg Leu Ser Glu Arg Ala Glu Gly Pro			
297	1410	1415	1420	
299	Ile Thr Ala Glu Asp Val Leu Thr Ser Ser Asn Ile Glu Ala Leu Ala			
300	1425	1430	1435	1440
302	Asp Lys Val Arg Thr Tyr Leu Glu Ala Gly Gln Ile Asp Gly Phe Val			
303	1445	1450	1455	
305	Arg Thr Leu Arg Ala Arg Pro Glu Ala Gly Gly Lys Val Pro Val Phe			
306	1460	1465	1470	
308	Val Phe His Pro Ala Gly Gly Ser Thr Val Val Tyr Glu Pro Leu Leu			
309	1475	1480	1485	
311	Gly Arg Leu Pro Ala Asp Thr Pro Met Tyr Gly Phe Glu Arg Val Glu			
312	1490	1495	1500	
314	Gly Ser Ile Glu Glu Arg Ala Gln Gln Tyr Val Pro Lys Leu Ile Glu			
315	1505	1510	1515	1520
317	Met Gln Gly Asp Gly Pro Tyr Val Leu Val Gly Trp Ser Leu Gly Gly			
318	1525	1530	1535	
320	Val Leu Ala Tyr Ala Cys Ala Ile Gly Leu Arg Arg Leu Gly Lys Asp			
321	1540	1545	1550	
323	Val Arg Phe Val Gly Leu Ile Asp Ala Val Arg Ala Gly Glu Glu Ile			
324	1555	1560	1565	
326	Pro Gln Thr Lys Glu Glu Ile Arg Lys Arg Trp Asp Arg Tyr Ala Ala			
327	1570	1575	1580	
329	Phe Ala Glu Lys Thr Phe Asn Val Thr Ile Pro Ala Ile Pro Tyr Glu			
330	1585	1590	1595	1600
332	Gln Leu Glu Glu Leu Asp Asp Glu Gly Gln Val Arg Phe Val Leu Asp			
333	1605	1610	1615	
335	Ala Val Ser Gln Ser Gly Val Gln Ile Pro Ala Gly Ile Ile Glu His			
336	1620	1625	1630	
338	Gln Arg Thr Ser Tyr Leu Asp Asn Arg Ala Ile Asp Thr Ala Gln Ile			
339	1635	1640	1645	
341	Gln Pro Tyr Asp Gly His Val Thr Leu Tyr Met Ala Asp Arg Tyr His			
342	1650	1655	1660	
344	Asp Asp Ala Ile Met Phe Glu Pro Arg Tyr Ala Val Arg Gln Pro Asp			
345	1665	1670	1675	1680
347	Gly Gly Trp Gly Glu Tyr Val Ser Asp Leu Glu Val Val Pro Ile Gly			
348	1685	1690	1695	
350	Gly Glu His Ile Gln Ala Ile Asp Glu Pro Ile Ile Ala Lys Val Gly			
351	1700	1705	1710	
353	Glu His Met Ser Arg Ala Leu Gly Gln Ile Glu Ala Asp Arg Thr Ser			
354	1715	1720	1725	
356	Glu Val Gly Lys Gln			
357	1730			

VERIFICATION SUMMARY

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DATE: 02/01/2007

TIME: 12:05:36

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Output Set: N:\CRF4\02012007\J570661.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date